Appl. No.: 10/573,212

Amdt. Dated December 16, 2008

Reply to Office action of September 18, 2008

Amendments to the Claims:

- (Previously Presented) A transgenic homozygous TRAM-knock out mouse nonresponsive to endotoxin wherein a part or a whole of TRIF-related adaptor molecule (TRAM) genes on its chromosome is deleted, a function of expressing TRAM which is expressed in a wild-type is lacked, and responsiveness to a ligand recognized by TLR4 is specifically impaired.
- (Previously Presented) The transgenic homozygous TRAM-knock out mouse non-responsive to endotoxin according to claim 1, which is responsive to PGN, R-848 and CpG ODN, and non-responsive to LPS.

(Canceled)

- 4. (Currently Amended) A method for screening a substance promoting essuppressing a response to a ligand recognized by TLR4, wherein the following responses (a) to (c) to the ligand recognized by TLR4 in a immunocyte derived from the transgenic homozygous TRAM-knock out mouse non-responsive to endotoxin according to claim 1 or 2 is measured/estimated, with the use of the immunocyte, a test substance and the ligand recognized by TLR4;
 - (a) cytokine (TNFα, IL-6 and IL-12p40) production of macrophage;
 - (b) splenocyte proliferation, and up-regulation of surface molecules; and
 - (c) expression of signaling molecules inducing IFN-β production.
- 5. (Currently Amended) A method for screening a substance promoting of suppressing a response to a ligand recognized by TLR4, wherein the following responses (a) to (c) to the ligand recognized by TLR4 in the transgenic homozygous TRAM-knock out mouse according to claim 1 or 2 is measured/estimated, with the use of the transgenic homozygous TRAM-knock out mouse, a test substance and the ligand recognized by TLR4:
 - (a) cytokine (TNFα, IL-6 and IL-12p40) production of macrophage;
 - (b) splenocyte proliferation, and up-regulation of surface molecules; and

Appl. No.: 10/573,212

Amdt. Dated December 16, 2008

Reply to Office action of September 18, 2008

- (c) expression of signaling molecules inducing IFN-β production.
- 6-7. (Canceled)
- 8. (Previously Presented) An immunocyte from the transgenic homozygous TRAMknock out mouse non-responsive to endotoxin according to claim 1 or 2.